

MEASLES HA INSERT FOR N-P AND P-M JUNCTIONS

3699 SEQ ID NO: 1 3731

3594 SEQ ID NO: 2 3623

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GATCCACAAGAAACGACACCGAACCAACCTTAAG

AflII GENE END IG GENE START

AflII MEASLES HA ORF TAG AflII

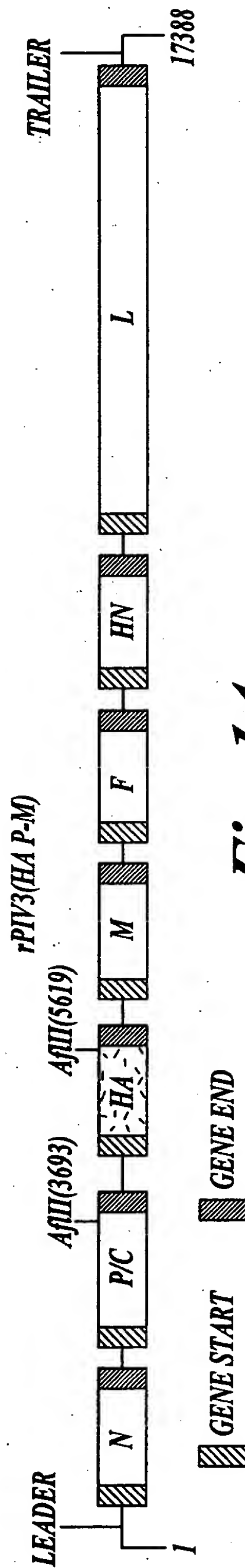
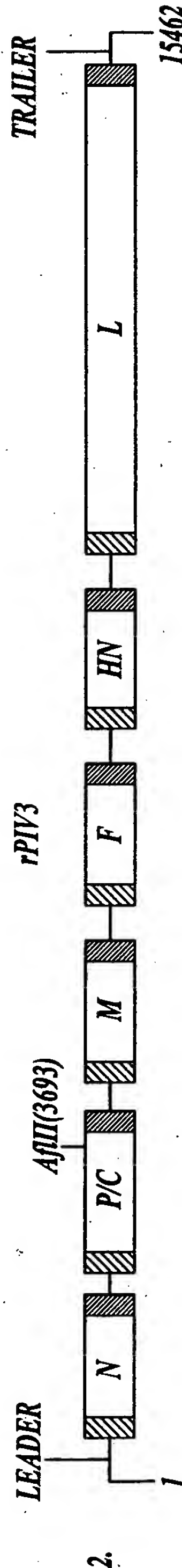
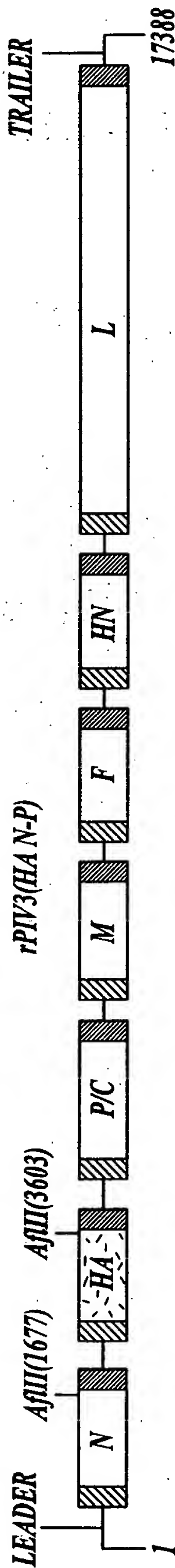
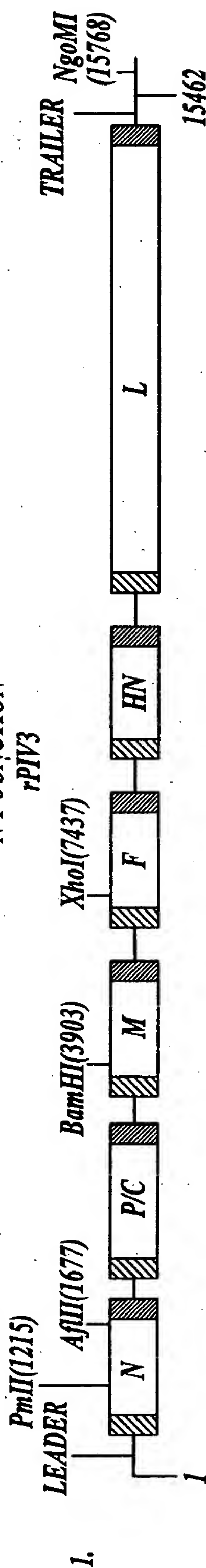


Fig. 1A

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# MEASLES HA INSERT FOR THE HN-L JUNCTION

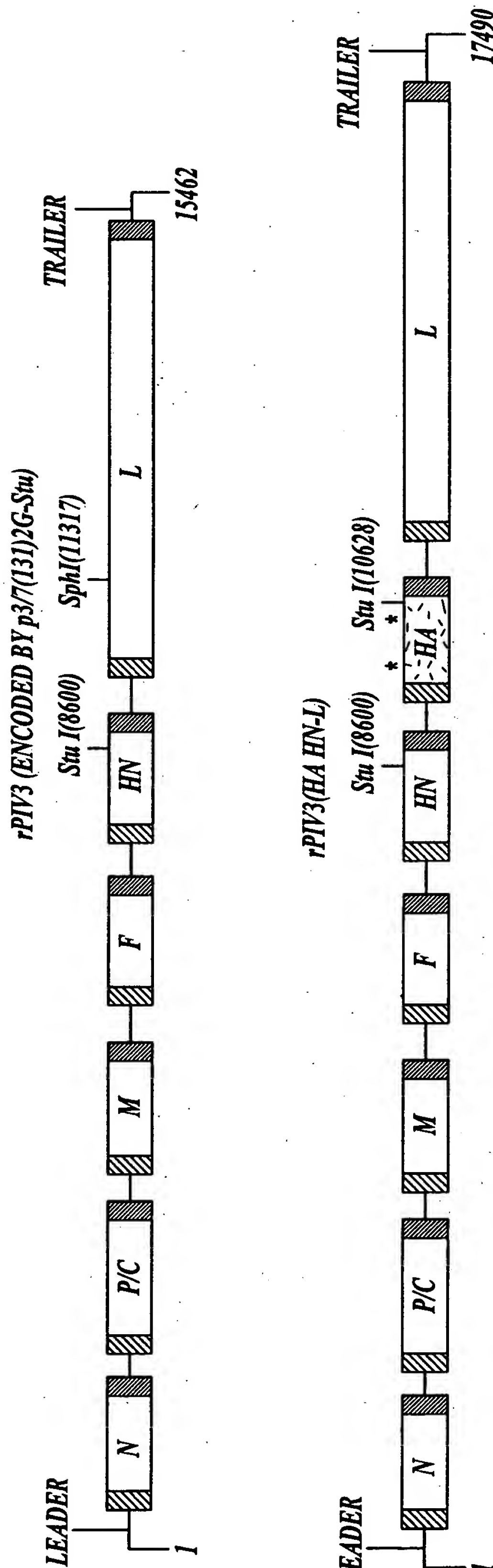
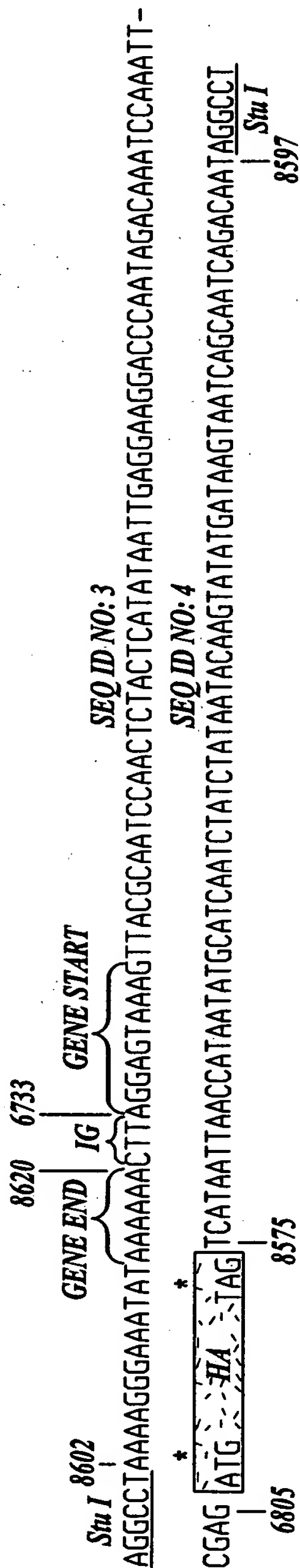
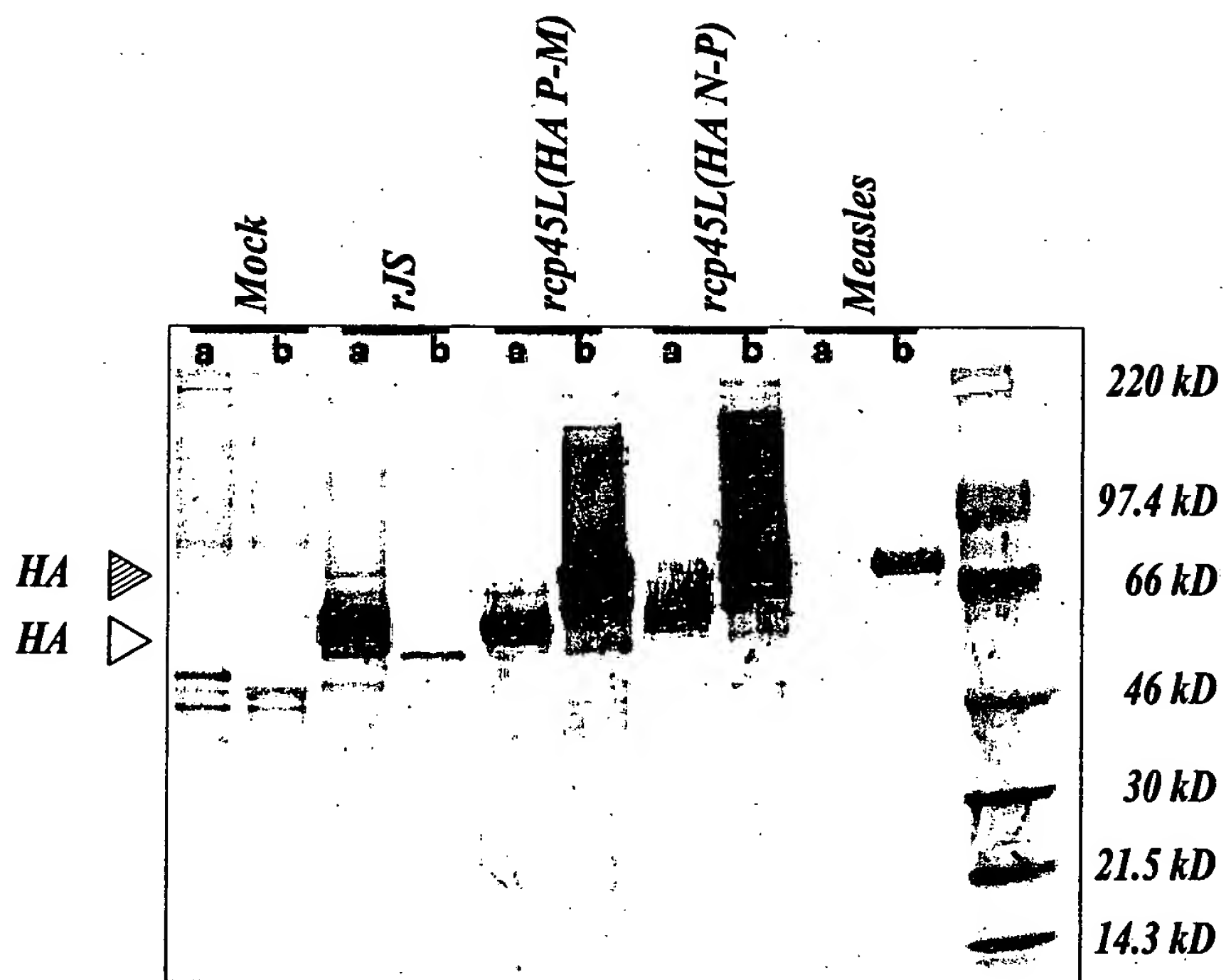


Fig. 1B

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*Fig. 2*

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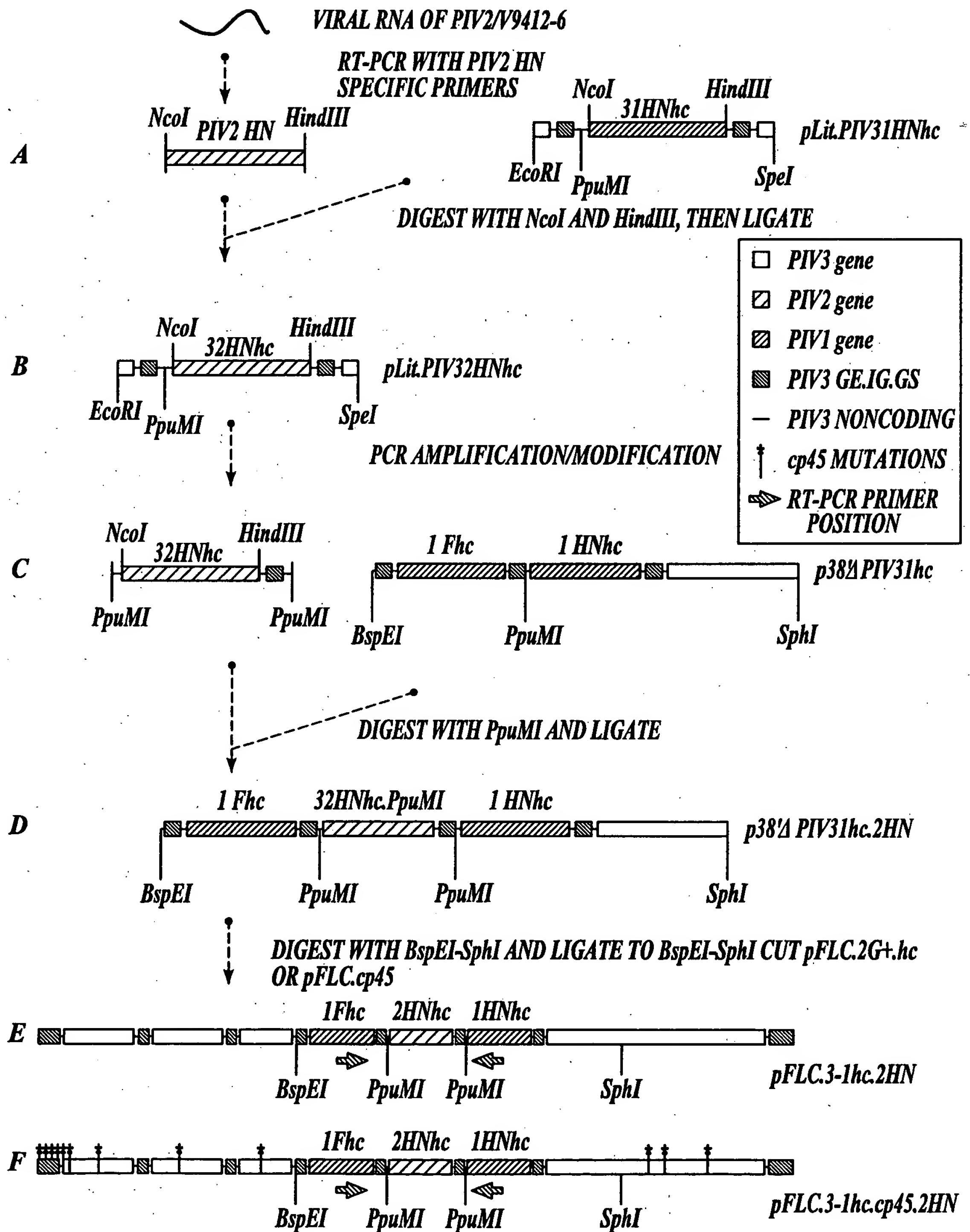


Fig. 3

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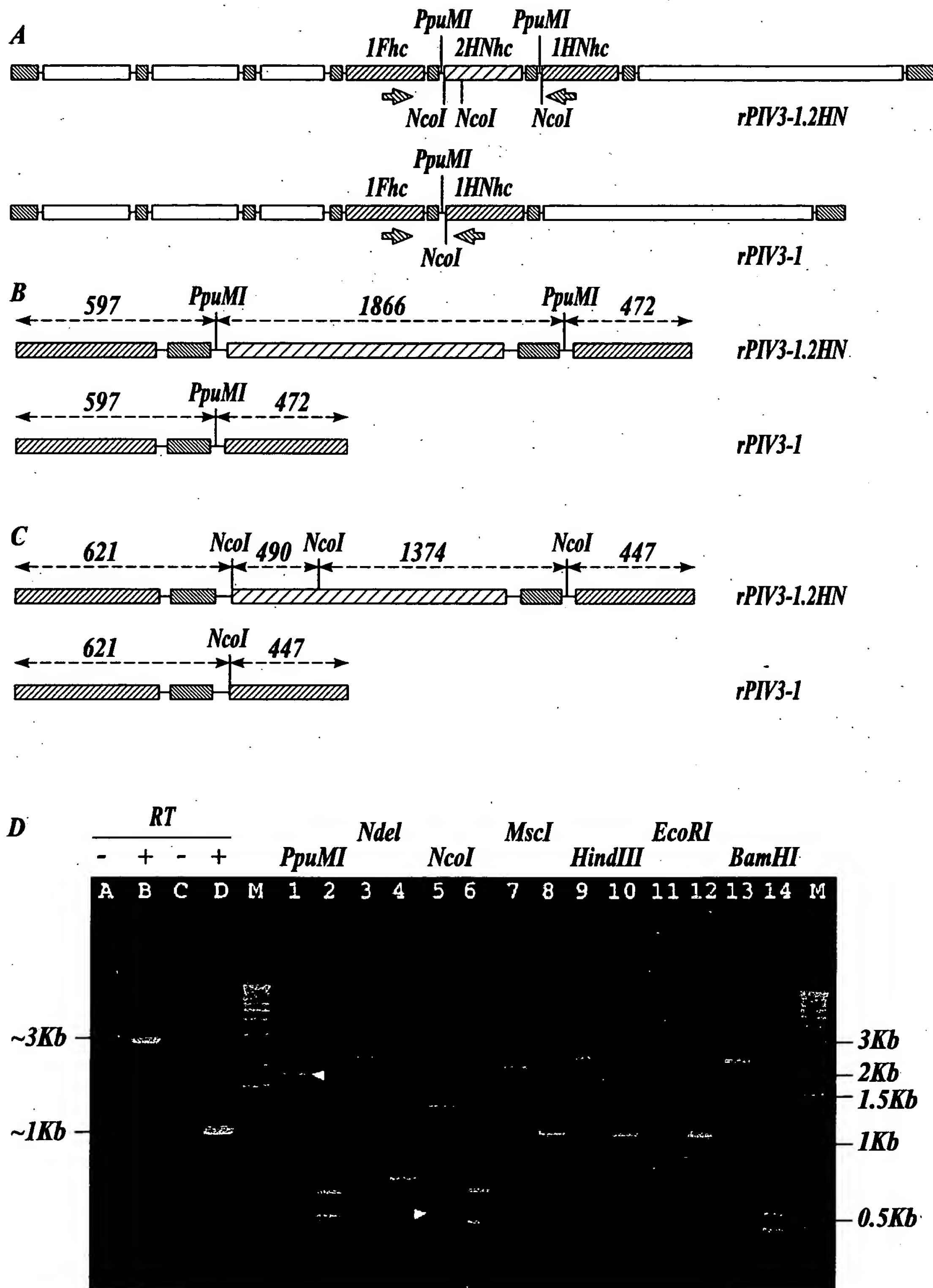
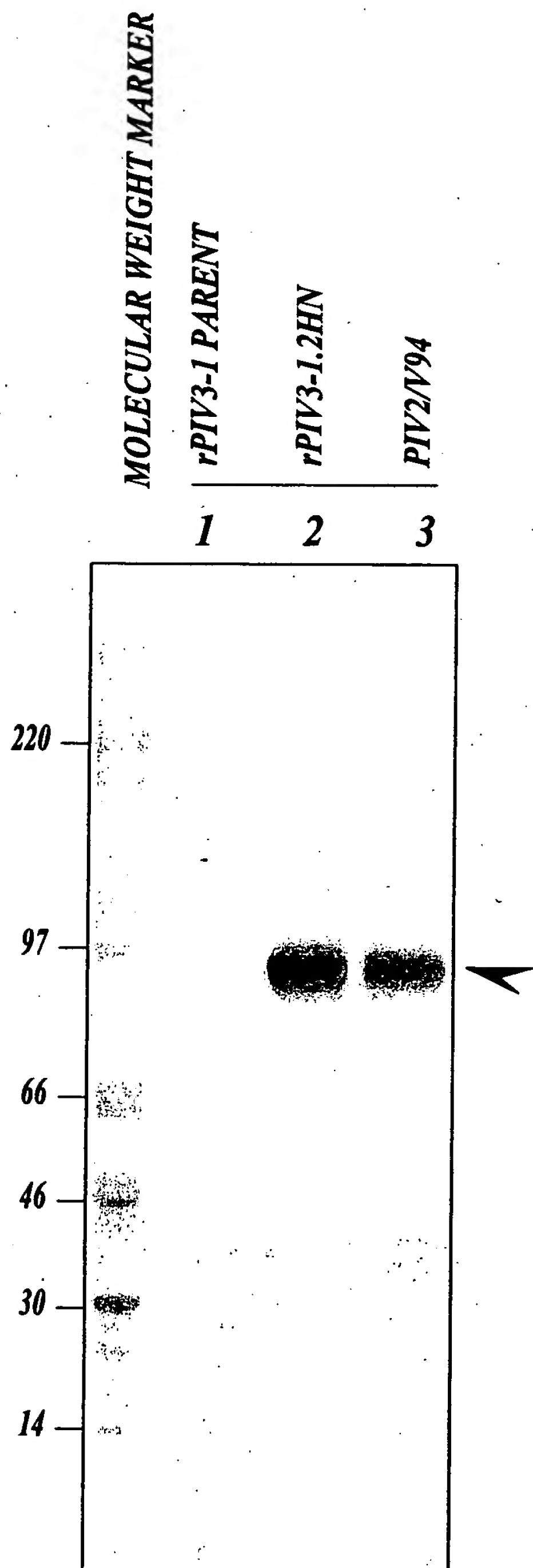
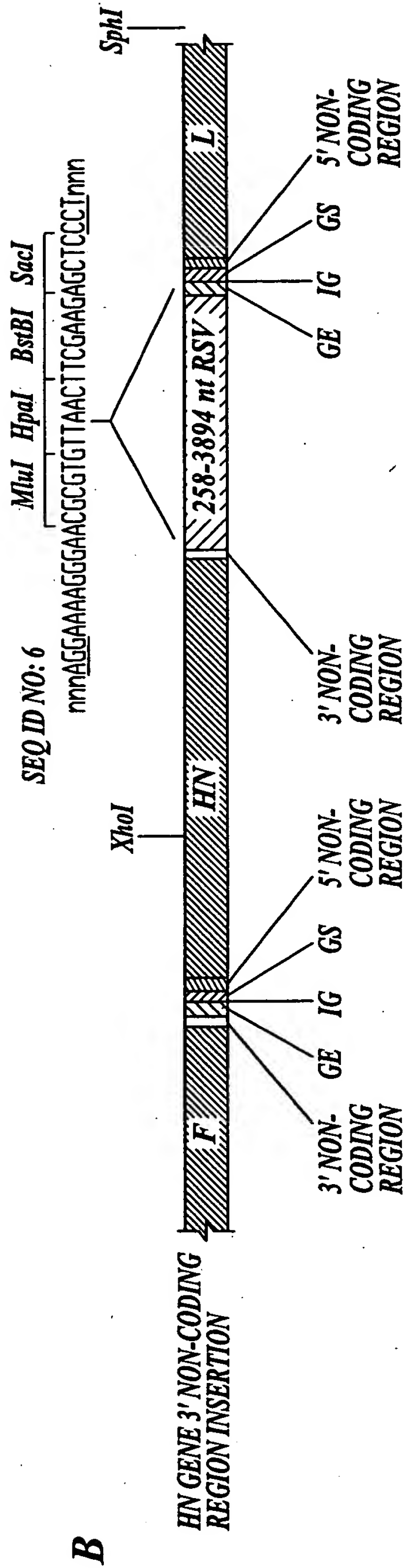


Fig. 4

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*Fig. 5*

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**Fig. 6**

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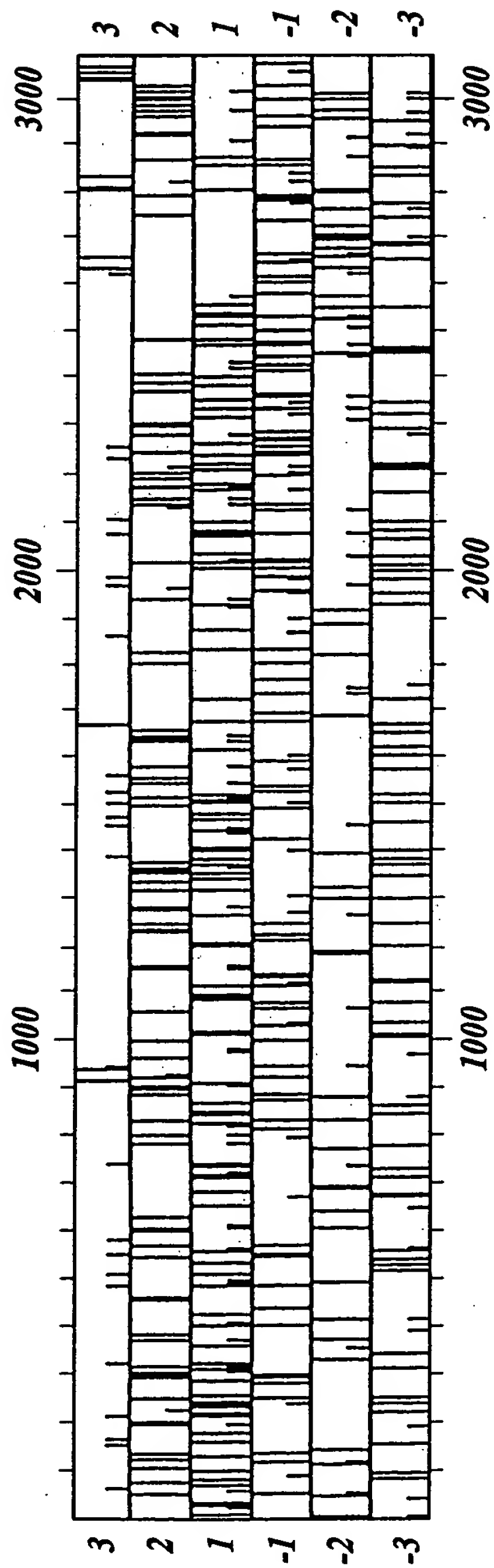
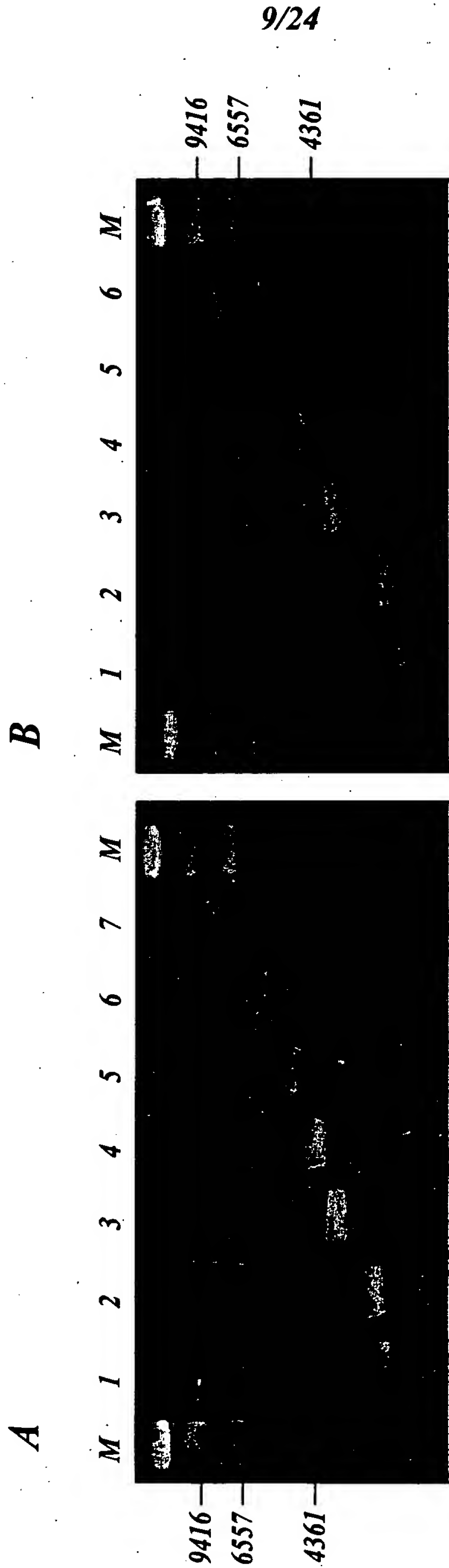


Fig. 7



FIGURE 2592250



*Fig. 8*

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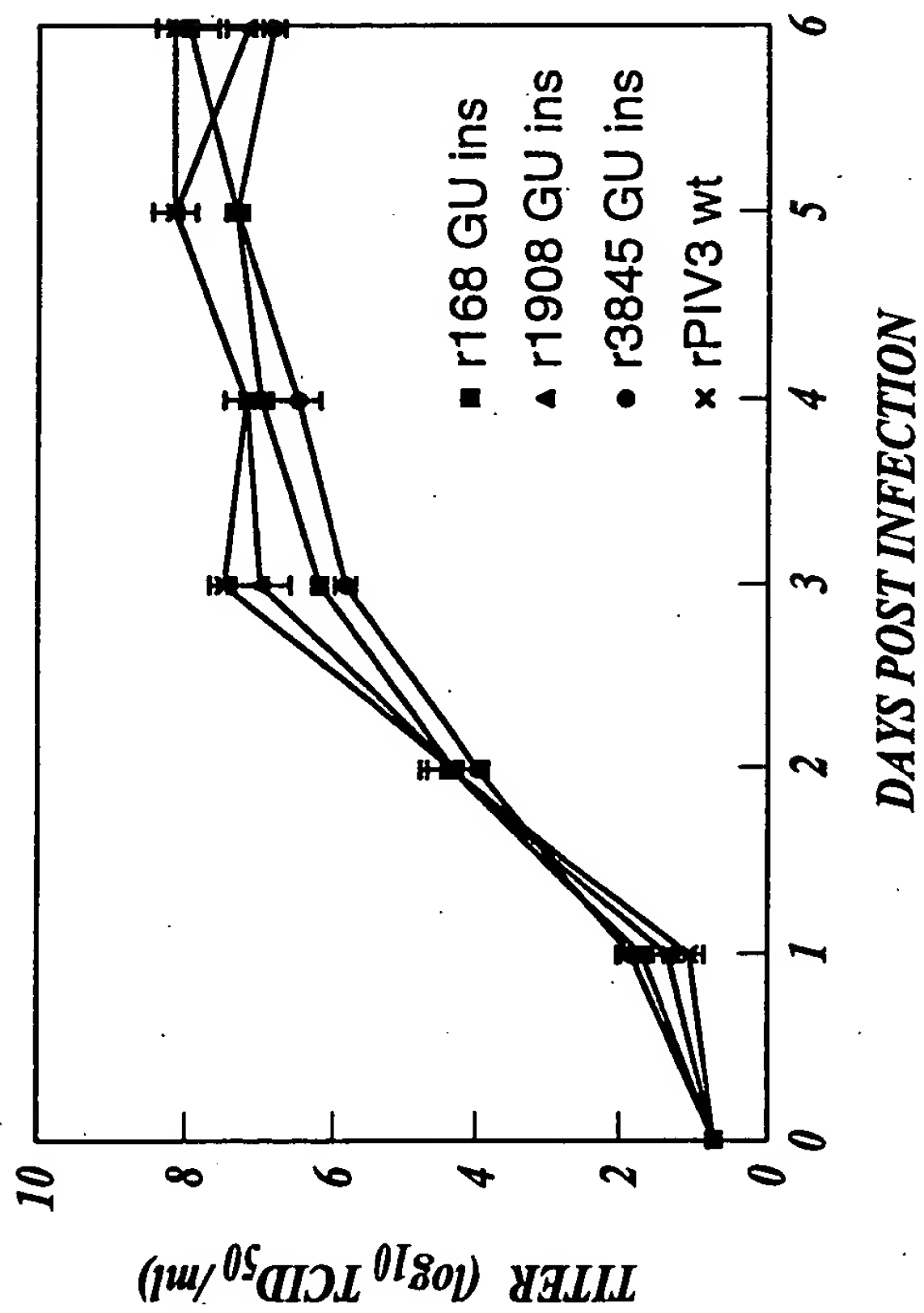


Fig. 9A

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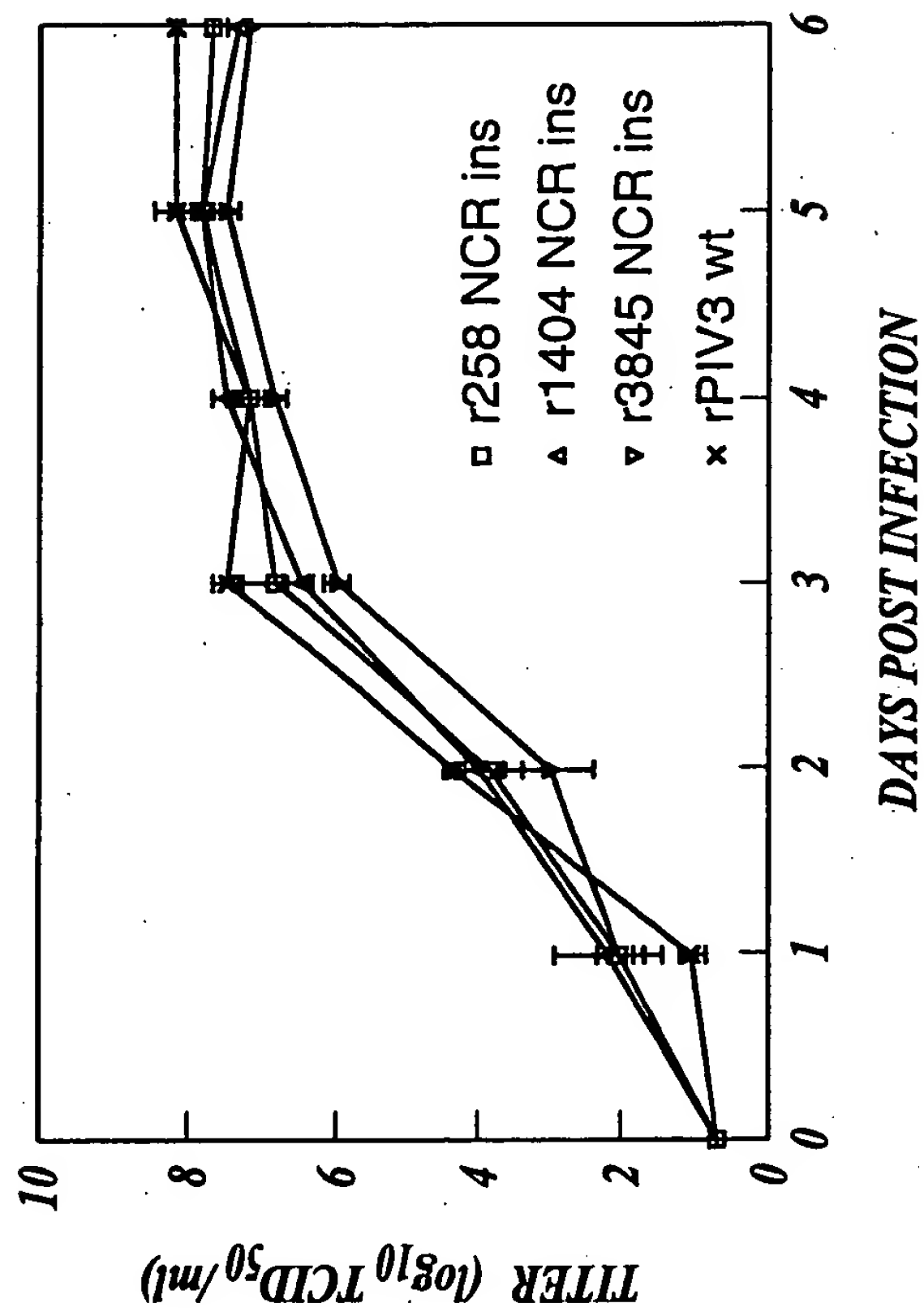


Fig. 9B

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FORM NO. 269EE-60

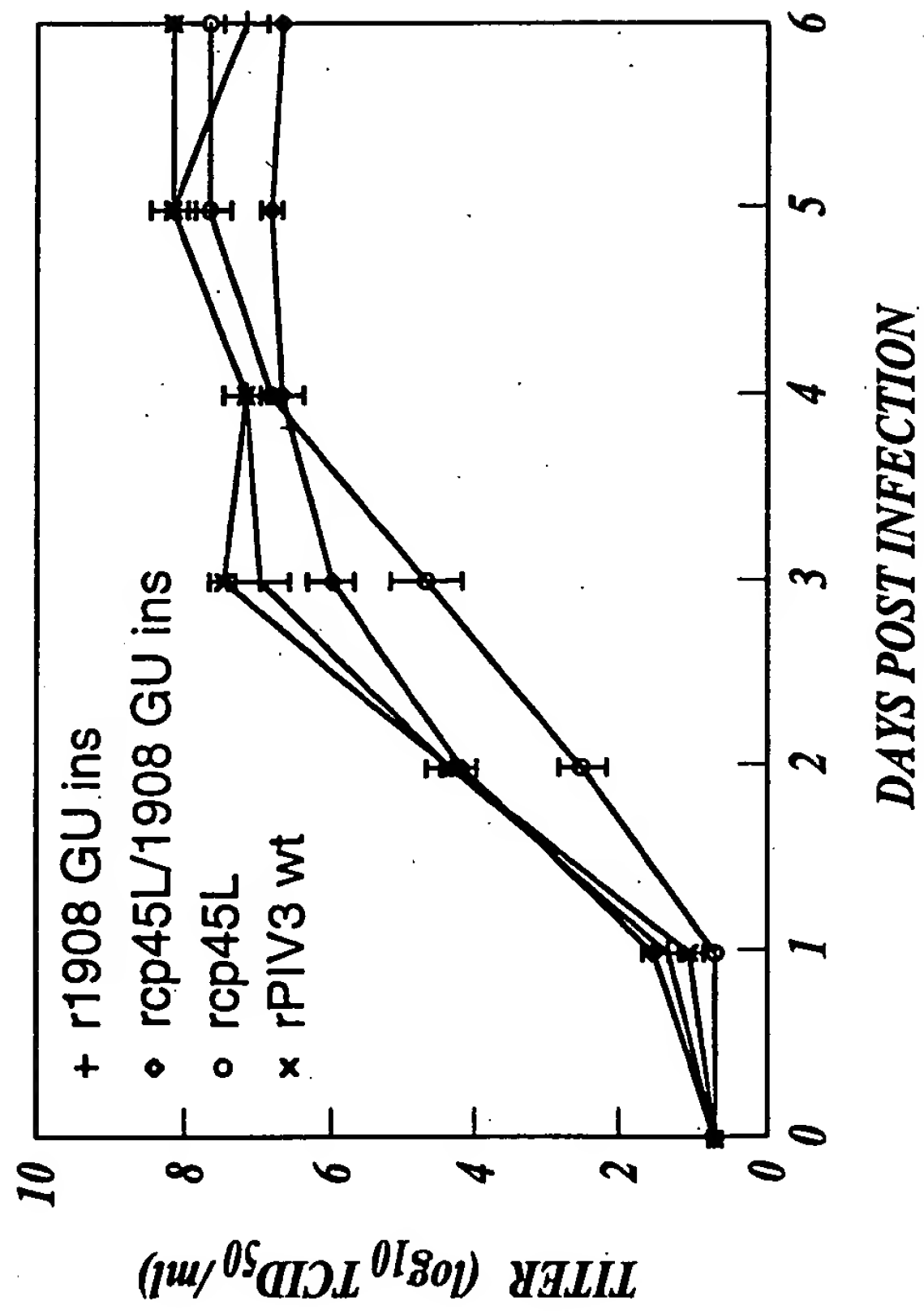


Fig. 9C

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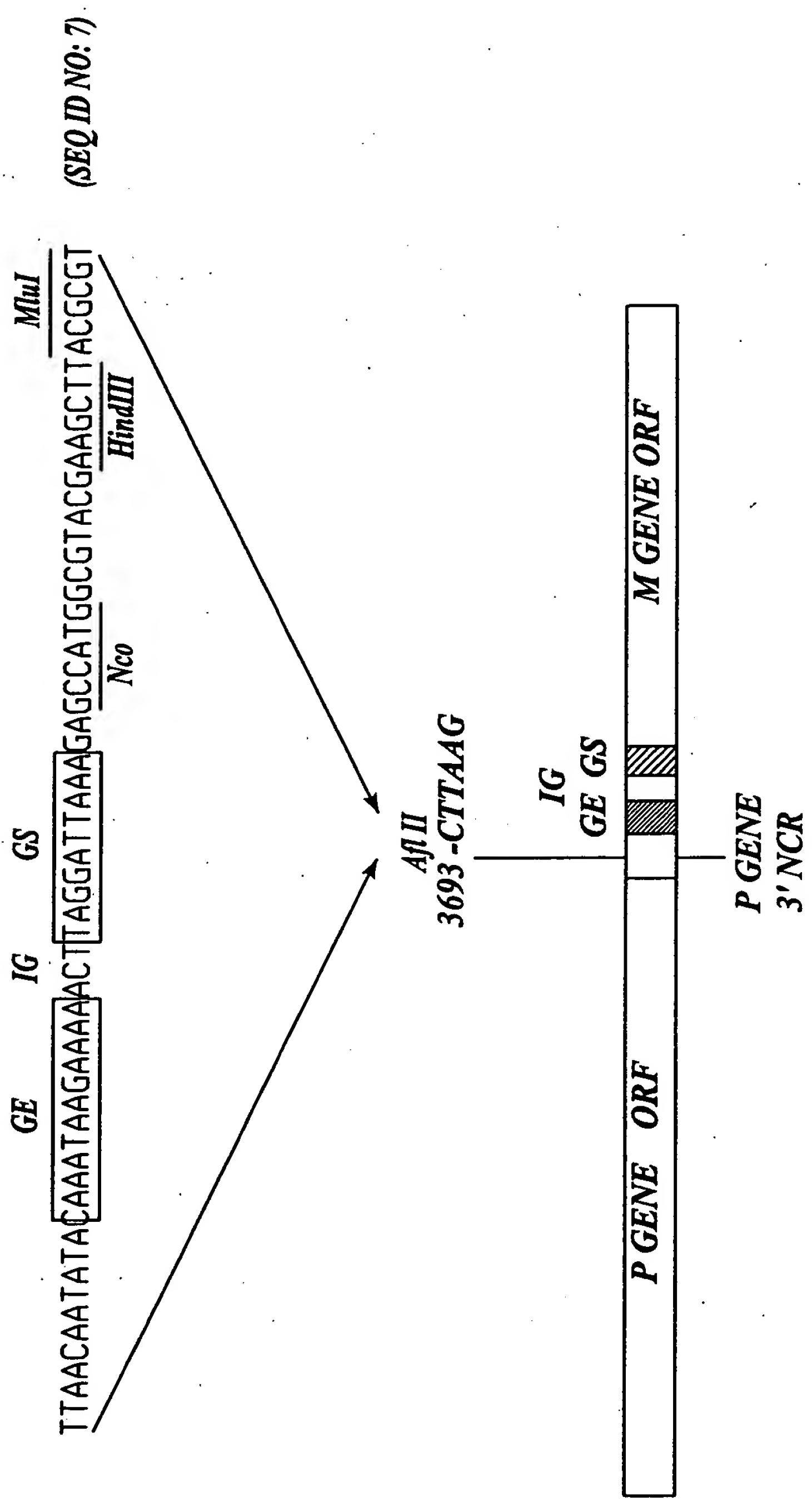


Fig. 10

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REDUCTION IN TITER AT 39°C (LOG <sub>10</sub> TCID <sub>50</sub> /ML) <sup>b</sup>		MEAN PEAK TITER (LOG <sub>10</sub> TCID <sub>50</sub> /ML) <sup>a</sup>	
rHPIV3 wt	3' 5' N P/CD/V M F HN L	9.4	0.3
rHPIV3 1HNN-P	3' 5' N HNPIV1 P/CD/V M F HN L	7.4	0.7
rHPIV3 1HNP-M	3' 5' N P/CD/V HNPIV1 M F HN L	7.9	2.3
rHPIV3 2HNN-P	3' 5' N HNPIV2 P/CD/V M F HN L	7.9	0.3
rHPIV3 2HNP-M	3' 5' N P/CD/V HNPIV2 M F HN L	9.2	0.5
rHPIV3 1HNN-P2HNP-M	3' 5' N HNPIV1 P/CD/V HNPIV2 M F HN L	8.5	0.8
rHPIV3 1HNN-P2HNP-MHAHN-L	3' 5' N HNPIV1 P/CD/V HNPIV2 M F HN HAMV L	7.7	3.0
rHPIV3 1HNN-P2HNP-M3918GUHN-L	3' 5' N HNPIV1 P/CD/V HNPIV2 M F HN GU3918n1 L	8.7	2.0

Fig. 11

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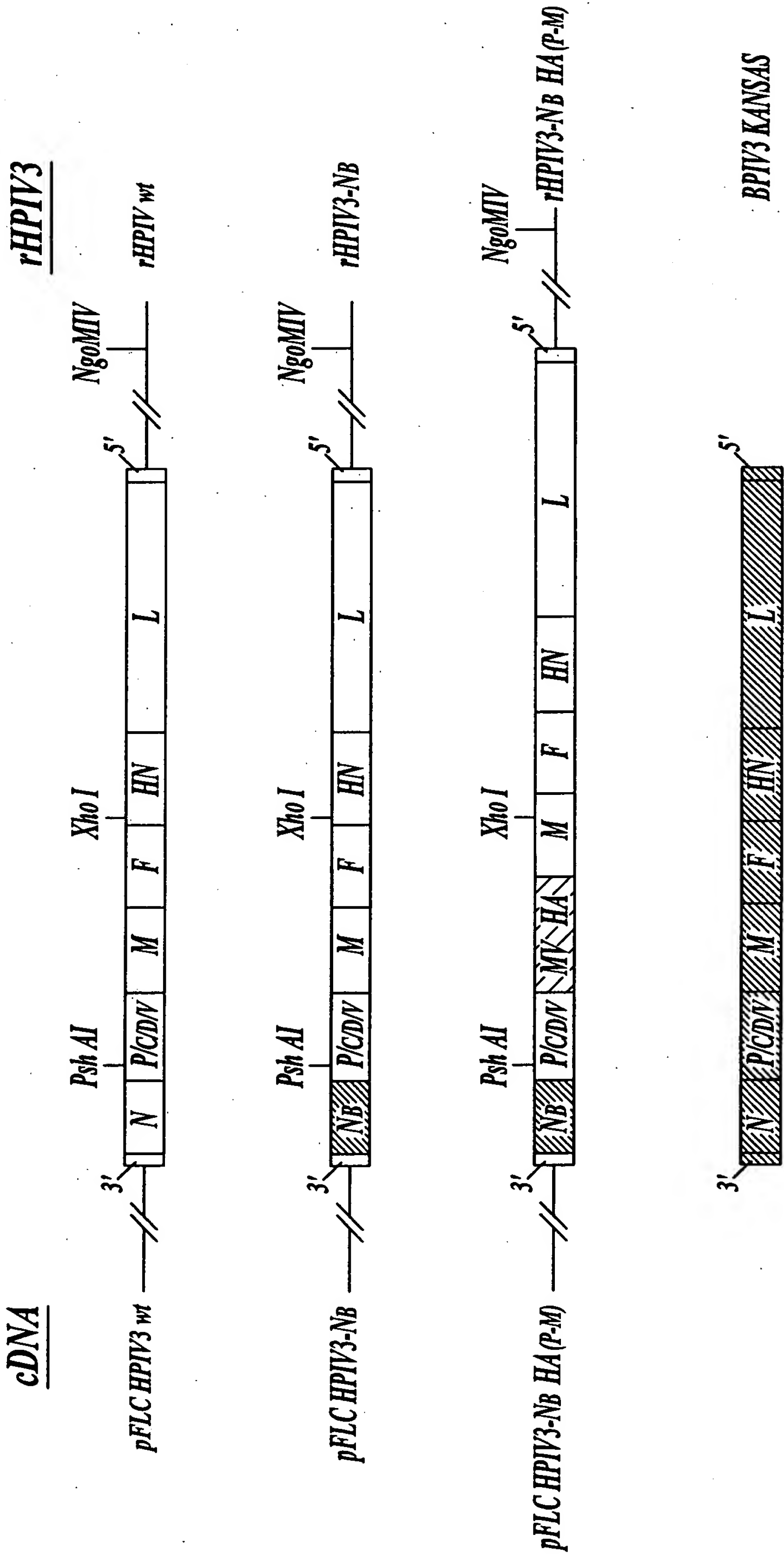
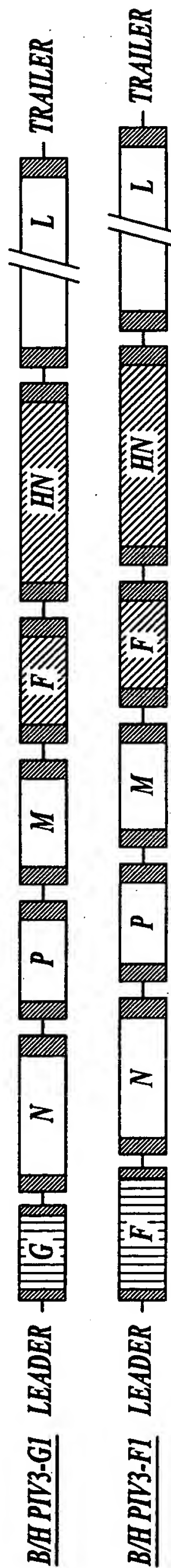
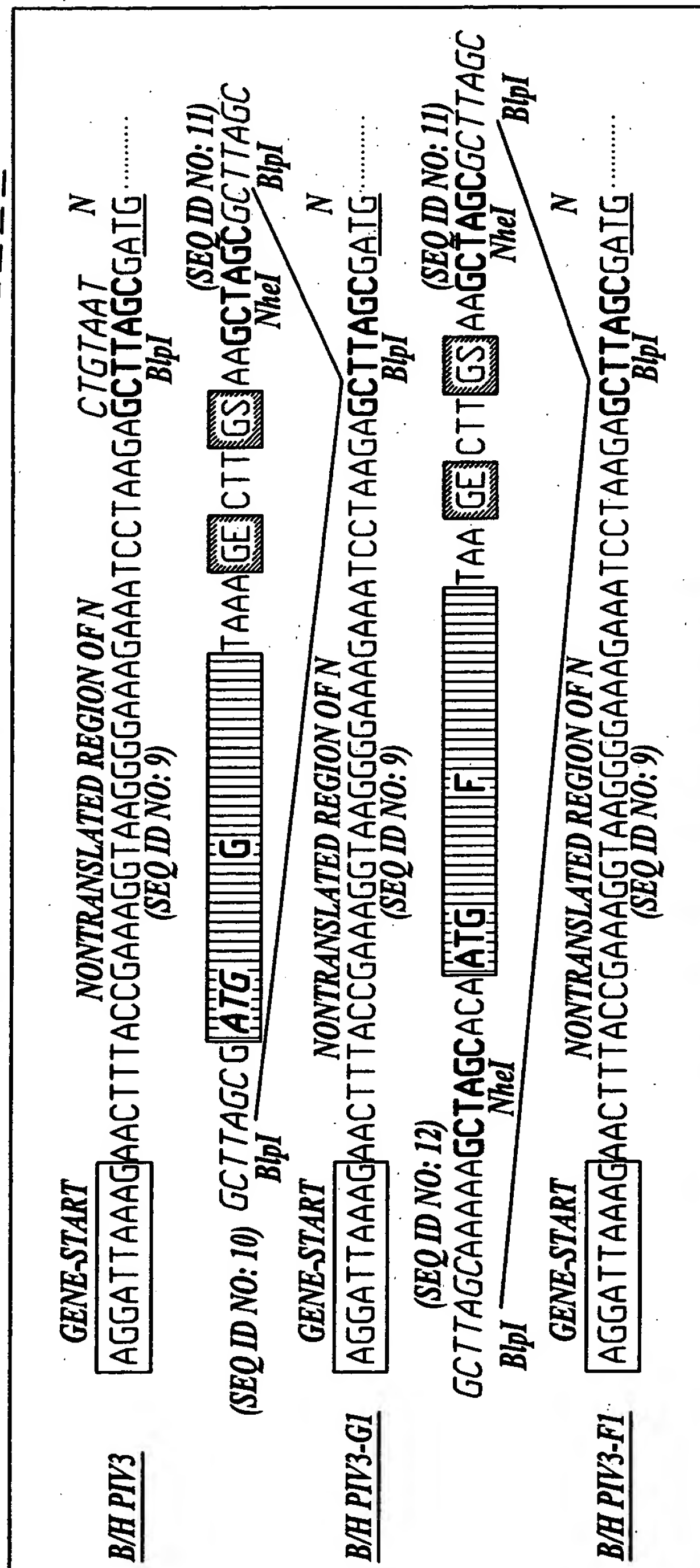
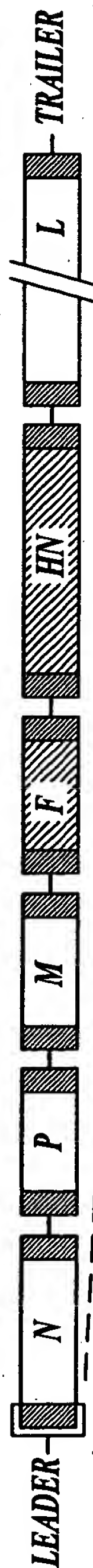


Fig. 12

# INSERTION OF RSV G OR F AS AN ADDITIONAL GENE UNIT IN A PROMOTER-PROXIMAL POSITION



**Fig. 13**



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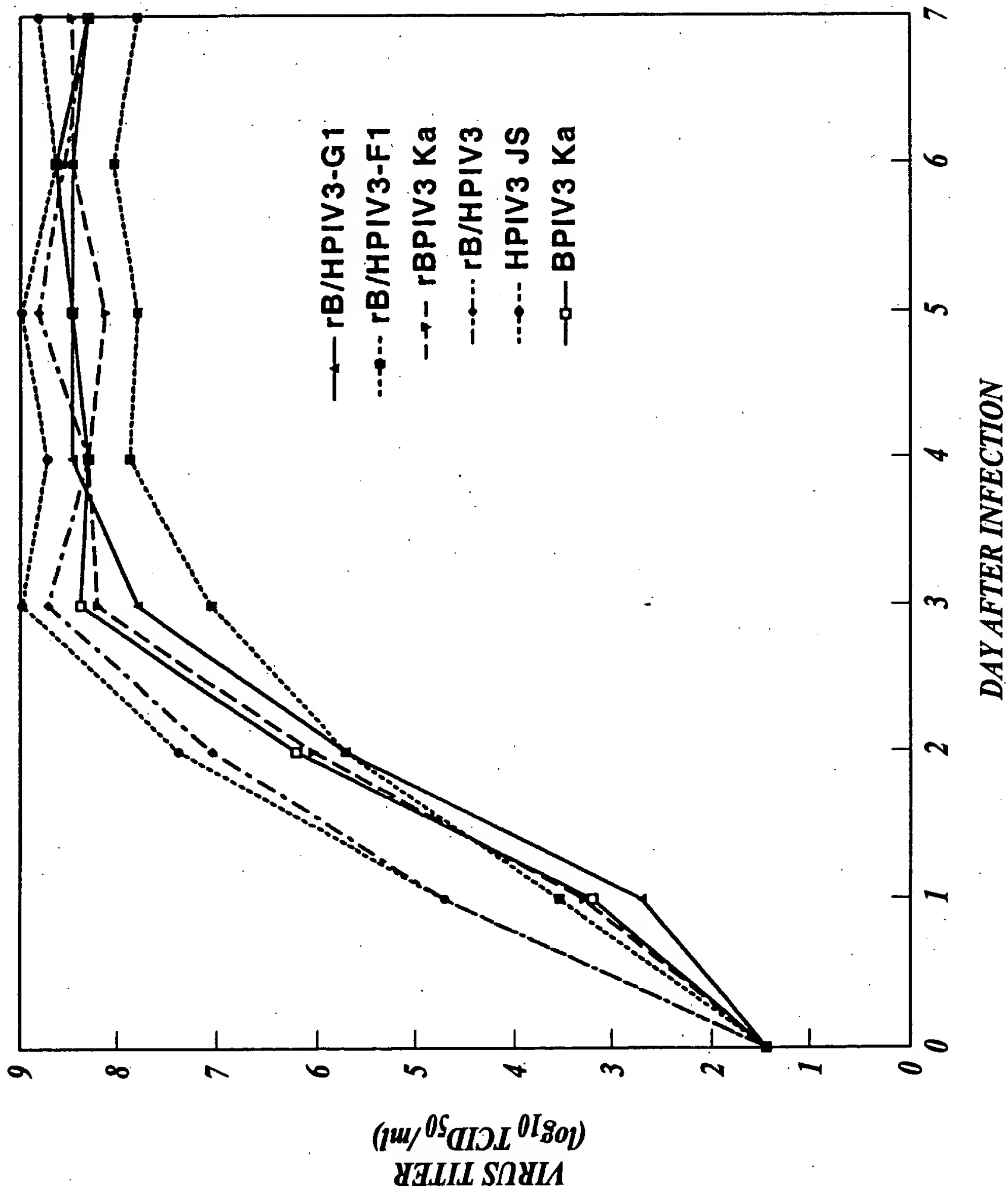


Fig. 14

FIG. 15

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RECOMBINANT BOVINE/HUMAN PIV3.1 EXPRESSING HPIV2 F AND HN FROM SUPERNUMERARY GENES

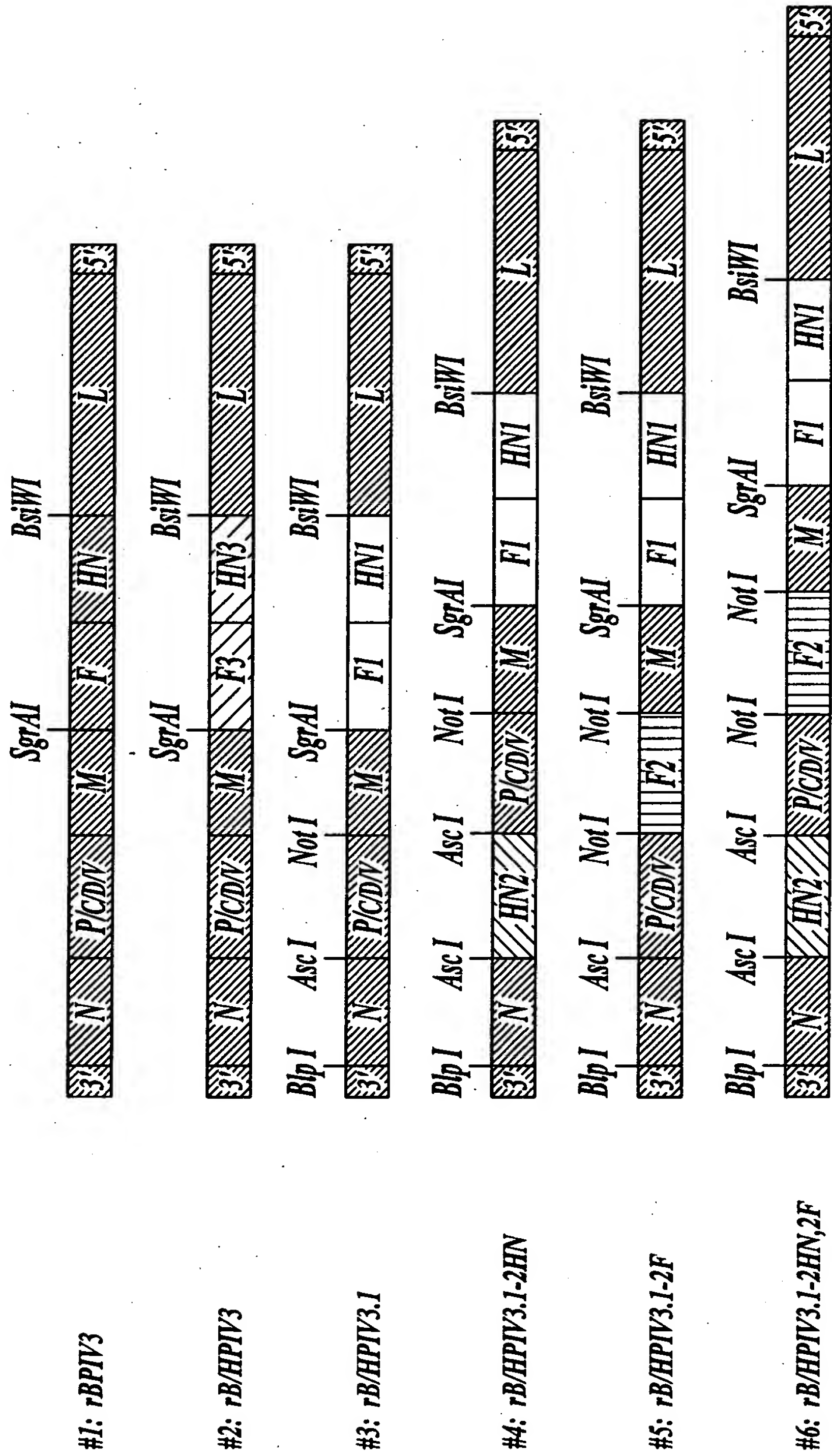
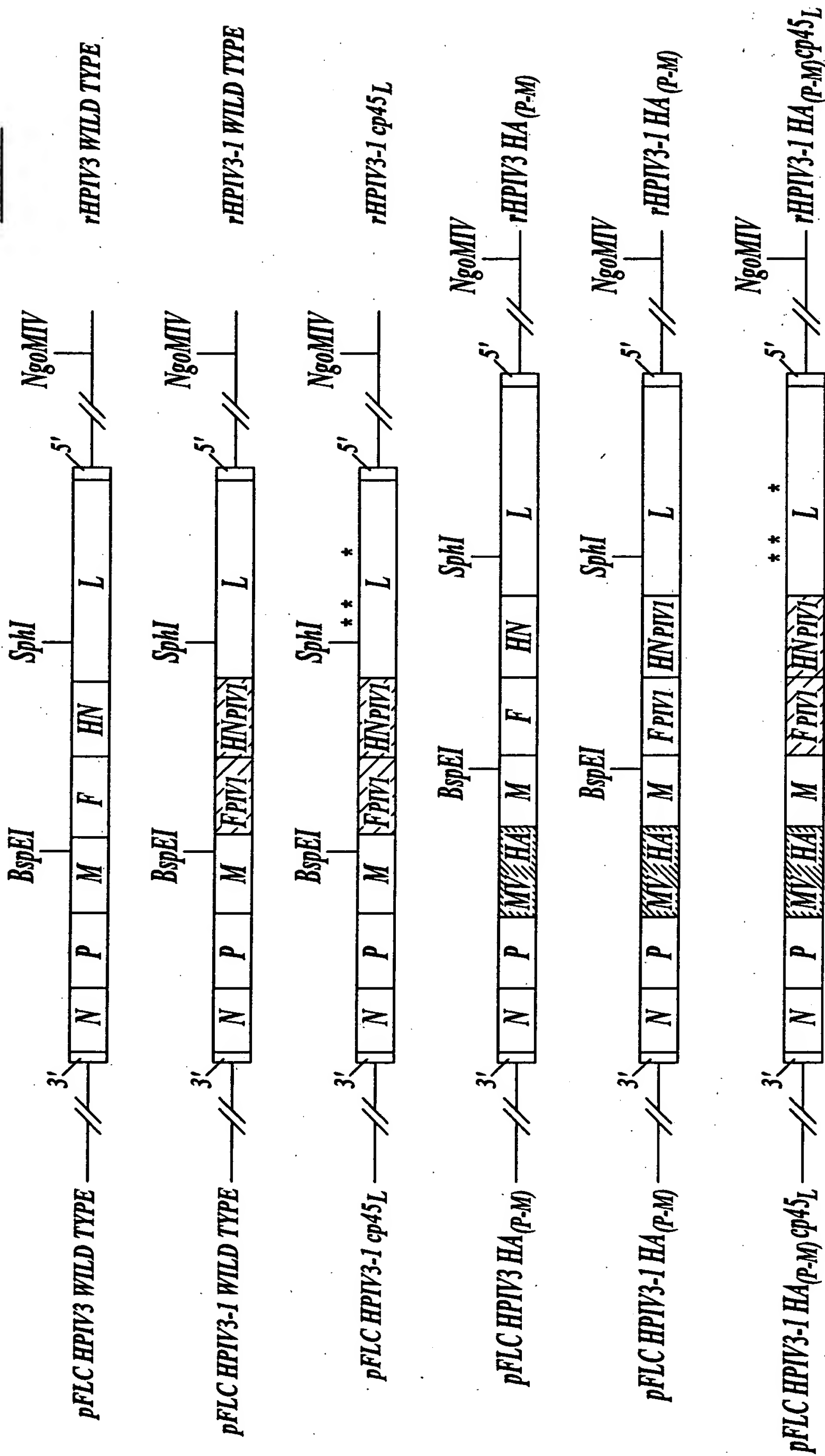


Fig. 15

THEORETICAL

cDNA

VIRUS



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Fig. 16

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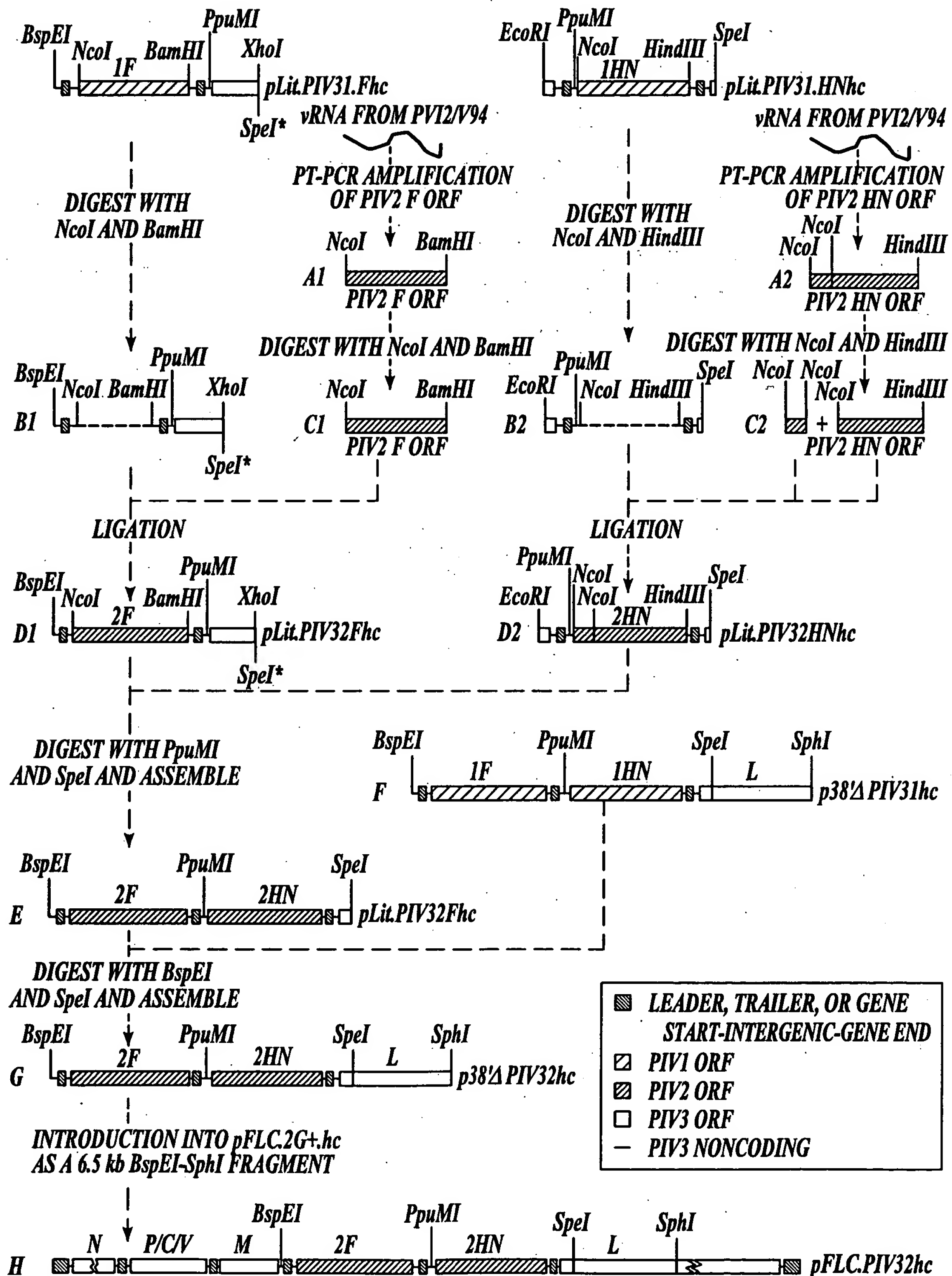


Fig. 17

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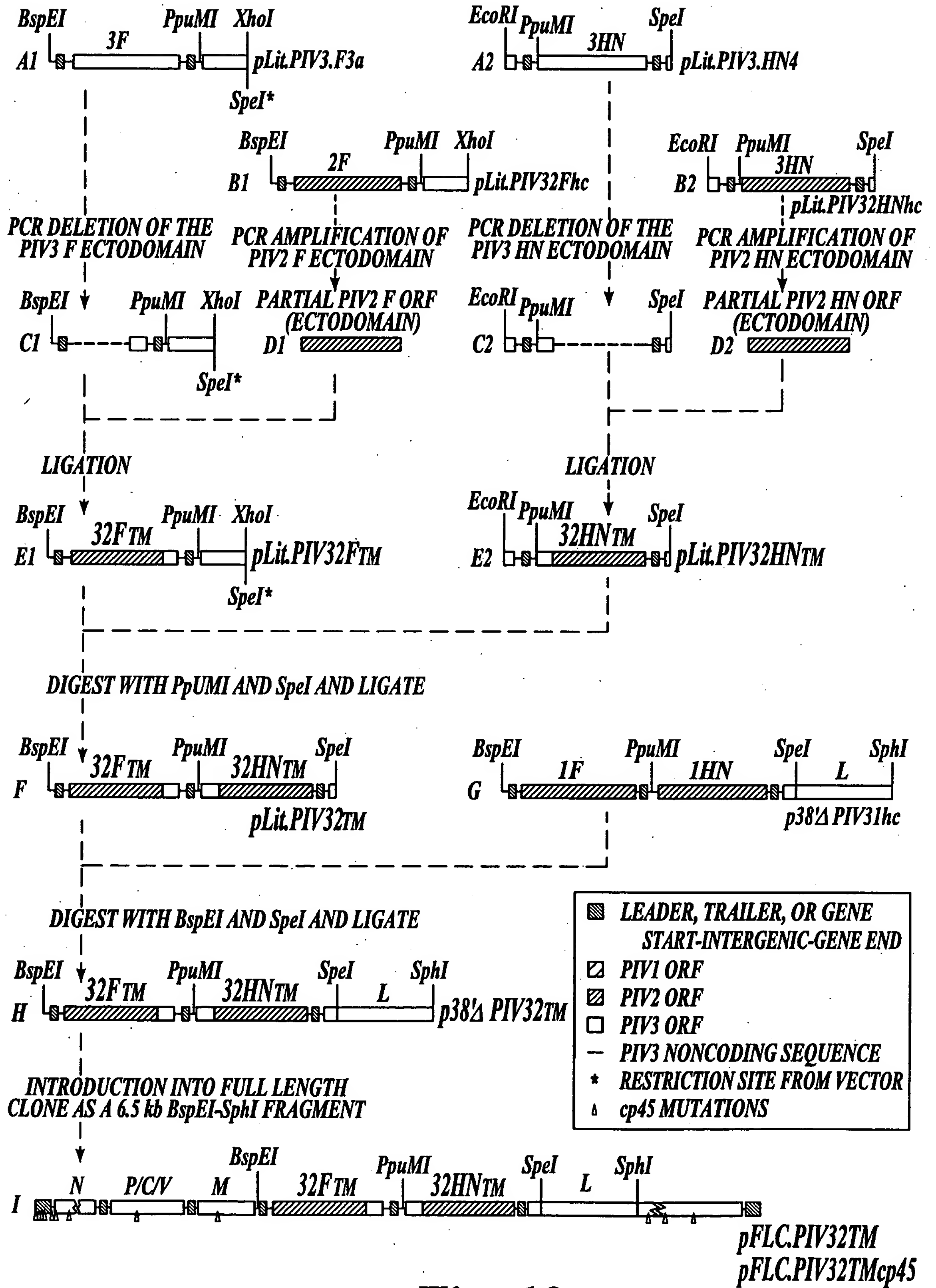


Fig. 18

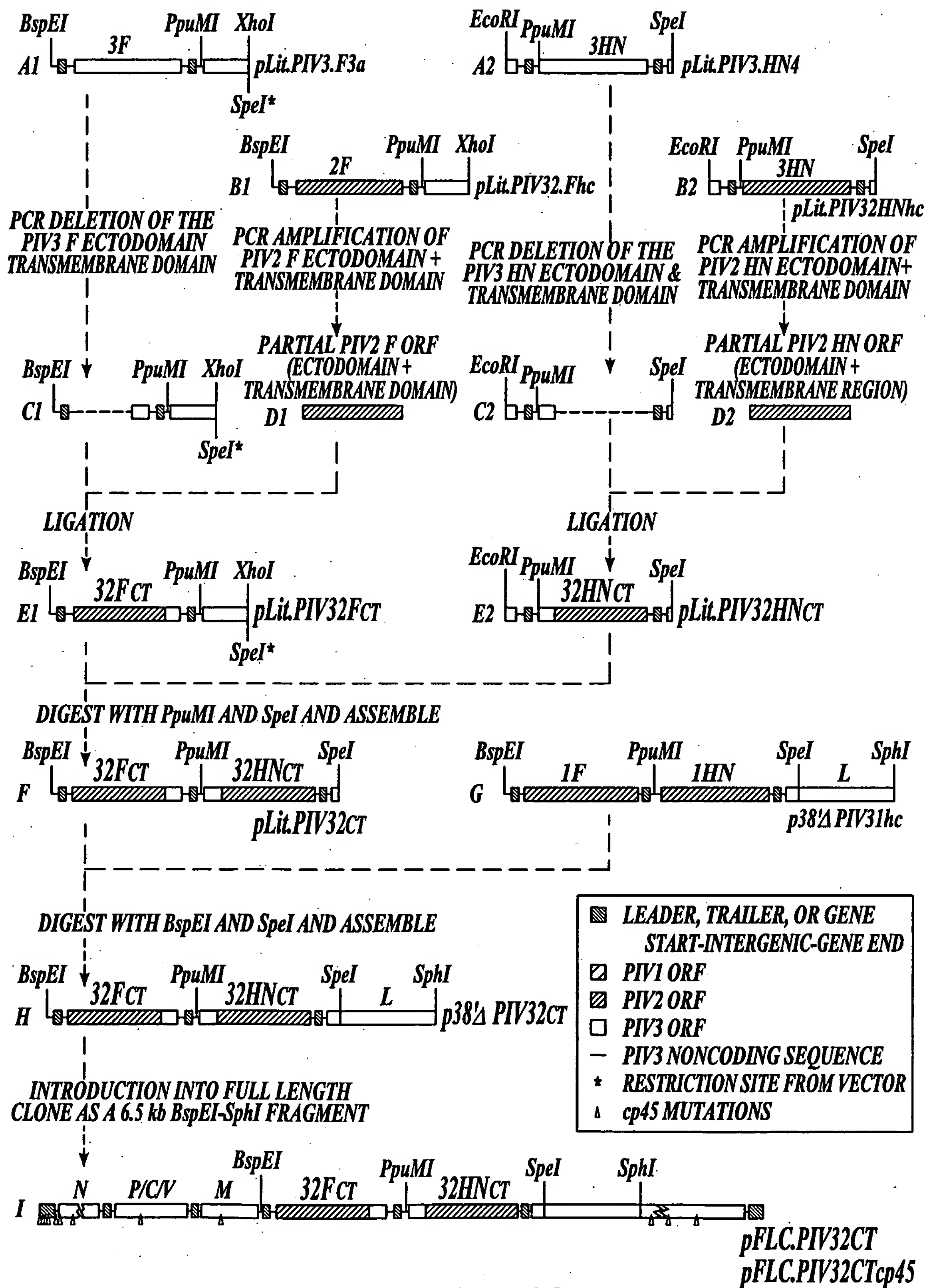
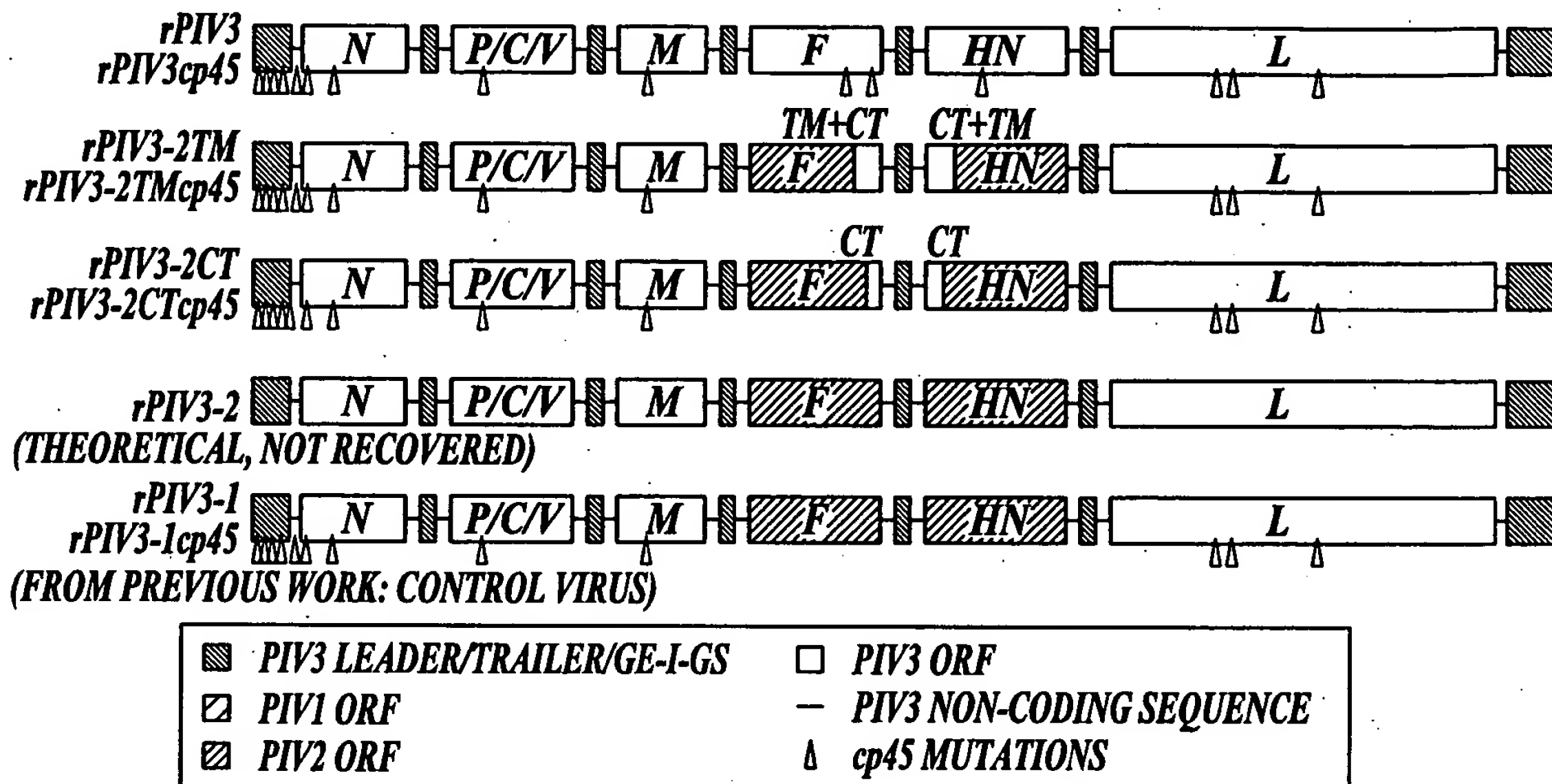


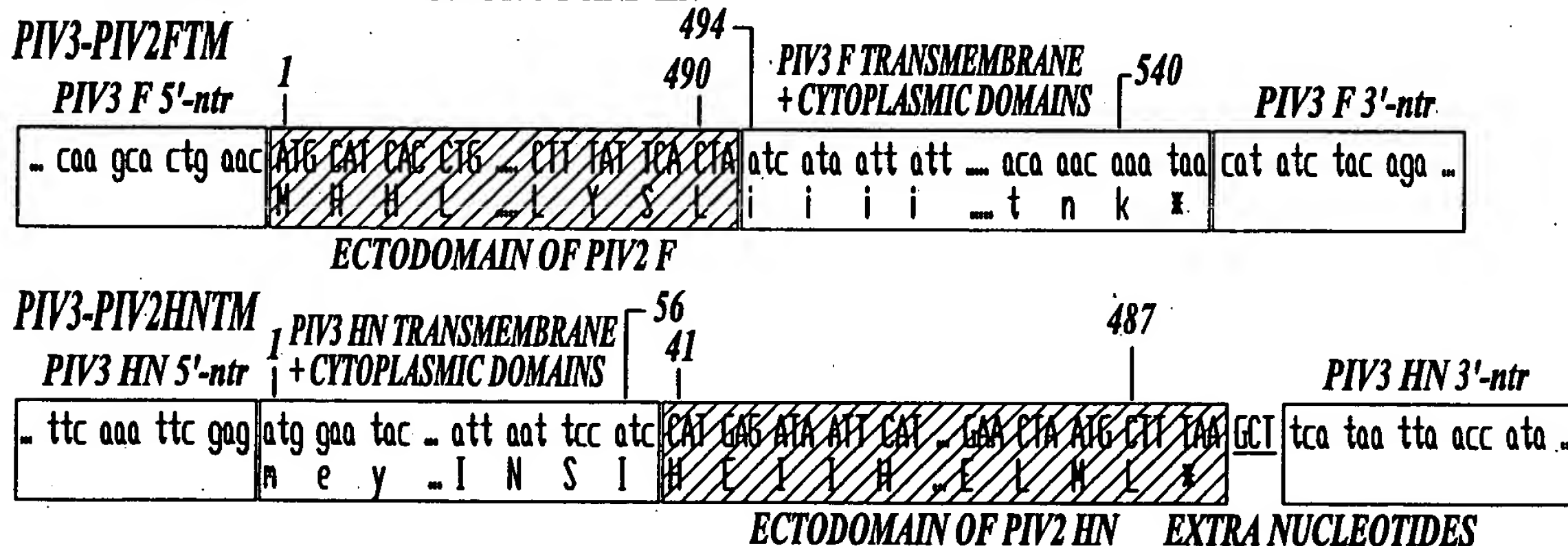
Fig. 19



## A. GENETIC STRUCTURES OF PIV3-2 CHIMERIC VIRUSES COMPARED WITH rPIV3 PARENT AND rPIV3-1



## B. CHIMERIC PIV3-2 F AND HN CONSTRUCTS WITH TRANSMEMBRANE AND CYTOPLASMIC DOMAINS DERIVED FROM PIV3 F AND HN



## C. CHIMERIC PIV3-2 F AND HN CONSTRUCTS WITH CYTOPLASMIC DOMAIN DERIVED FROM PIV3 F AND HN

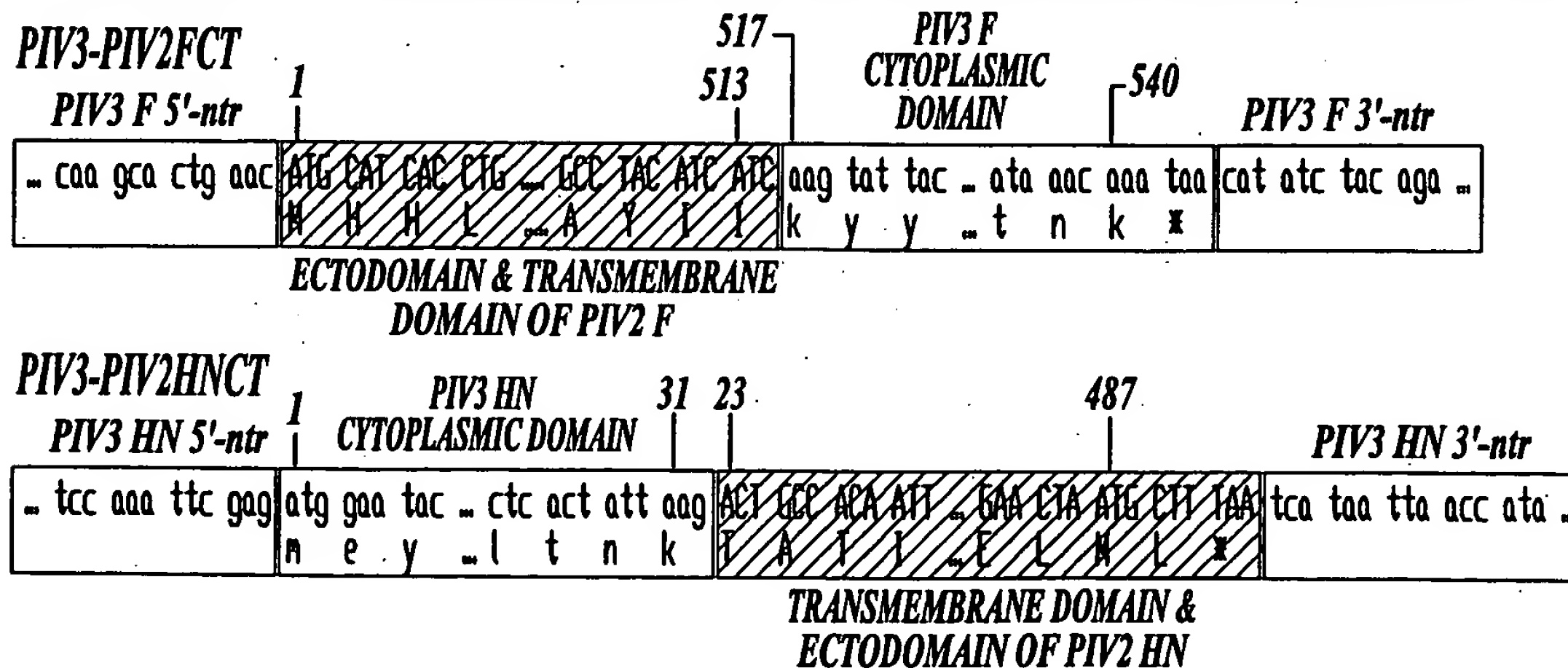
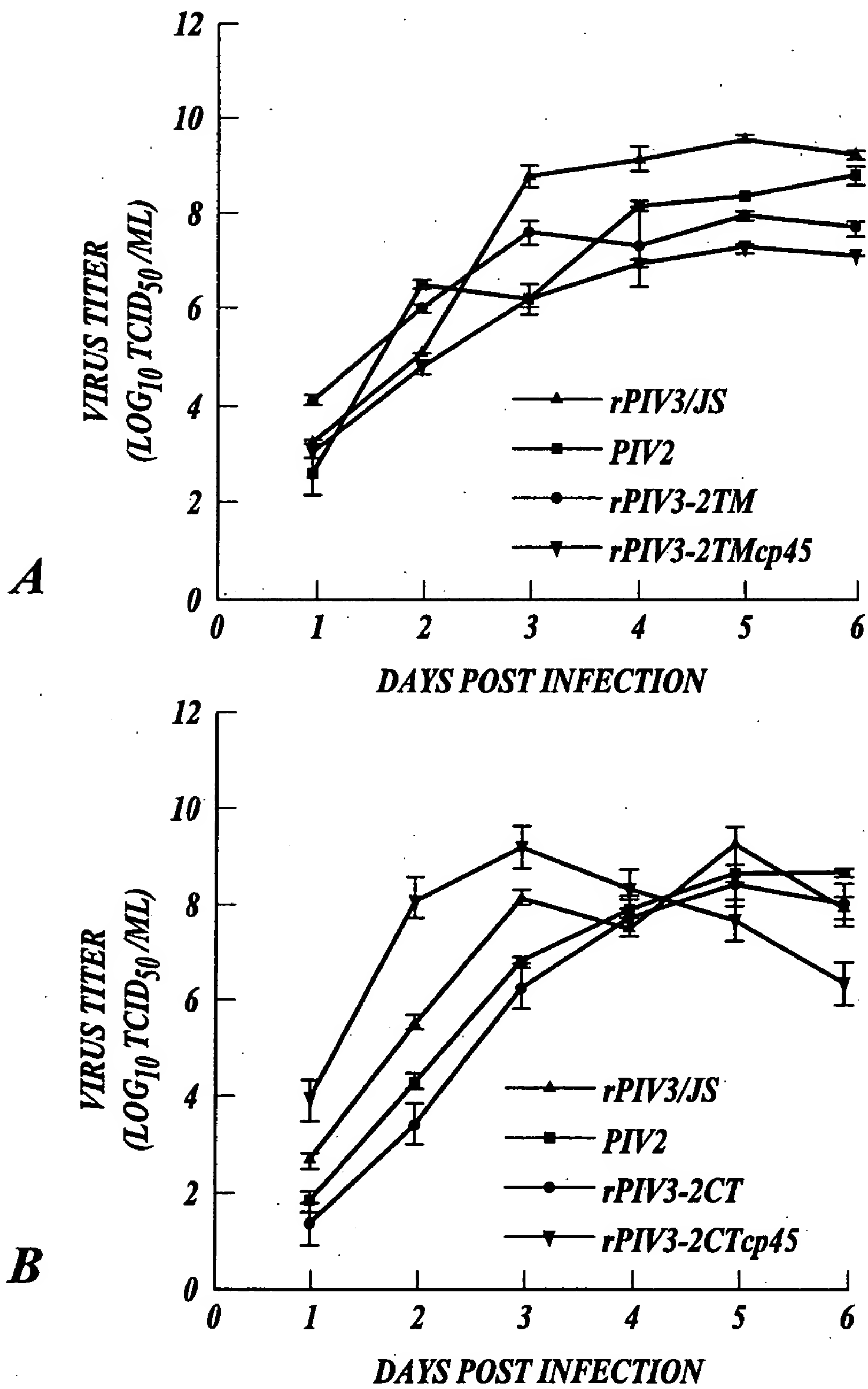


Fig. 20



**Fig. 21**